

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061423\  
 Data File : VY014154.D  
 Acq On : 14 Jun 2023 15:04  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/15/2023  
 Supervised By :Mahesh Dadoda 06/15/2023

Quant Time: Jun 15 07:32:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 210267     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 310413     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.495         | 117  | 297397     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 164013     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 133282     | 45.520   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 91.040%  |        |          |
| 35) Dibromofluoromethane     | 7.721          | 113  | 118703     | 53.922   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 107.840% |        |          |
| 50) Toluene-d8               | 10.184         | 98   | 403233     | 48.995   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 98.000%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 162857     | 55.705   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 111.400% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.905          | 85   | 112869     | 48.165   | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 137014     | 46.112   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 144856     | 50.143   | ug/l   | 97       |
| 5) Bromomethane              | 2.649          | 94   | 99535      | 41.759   | ug/l   | 98       |
| 6) Chloroethane              | 2.796          | 64   | 89668      | 45.679   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 236271     | 50.343   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.533          | 74   | 72059      | 45.982   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 121634     | 51.353   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.094          | 142  | 158989     | 50.834   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 78879      | 231.159  | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 117360     | 48.884   | ug/l   | 95       |
| 13) Acrolein                 | 3.728          | 56   | 45668      | 334.613  | ug/l   | 97       |
| 14) Allyl chloride           | 4.478          | 41   | 210857     | 48.453   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.161          | 53   | 183838     | 227.434  | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 298757     | 338.500  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 388977     | 49.999   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.478          | 43   | 154161     | 45.000   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 327427     | 46.242   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.716          | 84   | 143357     | 50.945   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 129698     | 48.436   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.124          | 45   | 400162     | 48.026   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.063          | 43   | 1173377    | 238.678  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.014          | 63   | 228152     | 47.491   | ug/l   | 97       |
| 25) 2-Butanone               | 6.990          | 43   | 315321     | 290.236  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 219151     | 48.569   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 144840     | 48.353   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.337          | 49   | 86145      | 44.094   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 160358     | 232.768  | ug/l   | 97       |
| 30) Chloroform               | 7.508          | 83   | 244458     | 47.965   | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 200300     | 51.066   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.703          | 97   | 228130     | 49.629   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 180890     | 52.707   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.075          | 43   | 110293     | 46.576   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.904          | 117  | 213159     | 53.822   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 212412     | 55.783   | ug/l   | 97       |
| 40) Benzene                  | 8.160          | 78   | 516178     | 50.579   | ug/l   | 98       |

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 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Quant Time: Jun 15 07:32:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 64513m   | 53.382  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 179595   | 49.765  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.276  | 43   | 202098   | 48.694  | ug/l   | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 141279   | 51.815  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 127809   | 49.306  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 77400    | 48.508  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.496  | 83   | 186406   | 49.894  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.294  | 41   | 97442    | 50.337  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.300  | 88   | 20050    | 988.916 | ug/l # | 59       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 549871   | 243.861 | ug/l   | 100      |
| 52) Toluene                   | 10.245 | 92   | 327388   | 51.750  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 199231   | 50.656  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.928  | 75   | 213176   | 49.678  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 103159   | 48.743  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 146116   | 50.054  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 175979   | 48.618  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 343939   | 262.110 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.831 | 43   | 452179   | 277.652 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.989 | 129  | 134365   | 49.604  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 104144   | 49.861  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 128538   | 50.707  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 349000   | 48.839  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 136234   | 48.470  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 631729   | 50.505  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 498479   | 103.608 | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 230078   | 50.581  | ug/l   | 97       |
| 70) Styrene                   | 12.044 | 104  | 400653   | 51.608  | ug/l   | 100      |
| 71) Bromoform                 | 12.209 | 173  | 91726    | 47.652  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.330 | 105  | 616146   | 49.245  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 187715   | 47.344  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.580 | 83   | 123860   | 44.303  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 105040m  | 48.815  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 154771   | 47.064  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 758636   | 49.641  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 425297   | 48.366  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 527666   | 49.253  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 46592    | 46.804  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 444234   | 47.673  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 462408   | 50.791  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 524712   | 49.478  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 661185   | 49.953  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 562956   | 49.696  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 302673   | 48.206  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 297920   | 47.094  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 530521   | 50.493  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.964 | 117  | 108793   | 48.197  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 269418   | 47.776  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 24045    | 45.163  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 175761   | 49.200  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 106242   | 51.513  | ug/l   | 99       |
| 95) Naphthalene               | 15.238 | 128  | 347509   | 47.926  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.427 | 180  | 153215   | 47.464  | ug/l   | 99       |

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ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 06/15/2023  
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Quant Time: Jun 15 07:32:07 2023  
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Quant Title : SW846 8260  
QLast Update : Fri Jun 09 18:07:13 2023  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

